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(54) Title: **LONG-ACTING DERIVATIVES OF PYY AGONISTS**

(57) Abstract: The invention provides a PYY agonist derivative of the formula: (X)<sub>n</sub>-Z, wherein X is a radical 9-fluorenylmethoxy-  
carbonyl (Fmoc) or 2-sulfo-9-fluorenyl-methoxycarbonyl (FMS), Z is the residue of a PYY agonist linked to the radical X through  
an amino or hydroxyl group, and n is 1 to 3, or a pharmaceutically acceptable salt thereof, for reducing food intake and treatment  
of a disease, condition or disorder that can be alleviated by reduction of food intake such as obesity, hypertension, dyslipidemia,  
cardiovascular risk, eating disorder, insulin-resistance, or diabetes mellitus.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00320

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A61K 38/00,38/43 US CL : 424/94.1 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 424/94.1; 530/300,333,335,345; 514/2 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	WO 03/057235 A2 (IMPERIAL COLLEGE INNOVATIONS, LTD) 17 July 2003 (17.07.2003), throughout specification, claims, particularly Example 6.	1-23
Y	US 2002/014985 A1 (PITNER, R.A., et al.) 3 October 2002 (03.10.2002), throughout, especially SEQ ID NO:2,3, paragraphs [0015],[0035], [0037], and claims.	1-23
Y	GERSHONOV, E. New Concept for Long-Acting Insulin. Diabetes. July 1999, Vol. 48, pages 1437-1442, especially page 1441.	1- 5,7,9,11,13,15,17,18,2 2
Y	SHECHTER, Y. N-[(2-Sulfo)-9-fluorenylmethoxycarbonyl]3-gentamicin C1 is a Long-Acting Prodrug Derivative. J. Med. Chem. 2002, Vol. 45, No. 19, pages 4264-4270, throughout.	1-23
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search 19 October 2004 (19.10.2004)		Date of mailing of the international search report 18 MAR 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized Officer Andrew D Kosar Telephone No. (571)272-1600

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Continuation of B. FIELDS SEARCHED Item 3:

PUBMED: Fmoc, FMS, drugs, STN REGISTRY/HCAPLUS: PYY peptide, SEQ ID NO:1,2; hypertension, diabetes, obesity.